

SEQUENCE LISTING

<110> INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE
 Oulmouden, Ahmad
 Julien, Raymond
 Lafort, Marie-Piere,
 Leveziel, Hubert

<120> USE OF THE SILVER GENE FOR THE AUTHENTICATION OF
 THE ORIGINAL BREED OF ANIMAL POPULATIONS AND
 THEIR DERIVATIVE PRODUCTS

<130> 0508-1156

<140> 10/565,646
 <141> March 24, 2006

<150> PCT/FR2004/001952
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 <151> July 25, 2003

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Lys Ala Trp Asn Arg Gln Leu Tyr Pro Glu Trp Thr Glu Ser Gln Gly	
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Pro Asp Cys Trp Arg	
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Gly Gly His Ile	
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Ser	Phe	Ser	Ile	Ala	Leu	His	Phe	Pro	Lys	Ser	Gln	Lys	Val	Leu	Pro		
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gat	ggg	cag	gtc	atc	tgg	gcc	aac	aac	acc	atc	atc	aat	g	gtgagtac	ctt	2735	
Asp	Gly	Gln	Val	Ile	Trp	Ala	Asn	Asn	Thr	Ile	Ile	Asn					
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Trp	Gly	Gly	Gln	Leu	Val	Tyr	Pro	Gln	Glu	Pro	Asp	Asp	Thr	Cys	Ile		
115					120					125					130		
ttc	ccc	gat	ggg	gag	ccc	tgc	cct	tct	ggc	cct	cta	tct	cag	aaa	aga	3907	
Phe	Pro	Asp	Gly	Glu	Pro	Cys	Pro	Ser	Gly	Pro	Leu	Ser	Gln	Lys	Arg		
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Cys	Phe	Val	Tyr	Val	Trp	Lys	Thr	Trp									
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Gln	Tyr	Trp	Gln	Val	Leu	Gly	Gly	Pro	Val	Ser	Gly	Leu	Ser	Ile	Gly		
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His Arg Arg Gly Ser Gln Ser Tyr Val Pro Leu Ala His Ser Ser Ser			
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Ala Phe Thr Ile Thr			
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	Asp Gln Val Pro Phe Ser		215
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Val Ser Val Ser Gln Leu Gln Ala Leu Asp Gly Arg Asn Lys Arg Phe			
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ctg aga aag cag cct ctg acc ttt gcc ctc cag ctc cat gat ccc agt			4842
Leu Arg Lys Gln Pro Leu Thr Phe Ala Leu Gln Leu His Asp Pro Ser			
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Gly Tyr Leu Ala Gly Ala Asp Leu Ser Tyr Thr Trp Asp Phe Gly Asp			
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agt aca ggg acc ctg atc tct cgg gca ctc acg gtc act cac act tac			4938
Ser Thr Gly Thr Leu Ile Ser Arg Ala Leu Thr Val Thr His Thr Tyr			
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cta gag tct ggc cca gtc act gca cag gtg gtg ctg cag gct gcc att			4986
Leu Glu Ser Gly Pro Val Thr Ala Gln Val Val Leu Gln Ala Ala Ile			
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Pro Leu Thr Ser Cys Gly Ser Ser Pro Val Pro Gly Thr Thr Asp Arg			
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cat gtg aca act gca gag gct cct gga acc aca gct ggc caa gtg cct			5082
His Val Thr Thr Ala Glu Ala Pro Gly Thr Thr Ala Gly Gln Val Pro			
315	320	325	
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Thr Thr Glu Val Met Gly Thr Thr Pro Gly Gln Val Pro Thr Ala Glu			
330	335	340	
gcc cct ggc acc aca gtt ggg tgg gtg cca acc aca gag gat gta ggt			5178
Ala Pro Gly Thr Thr Val Gly Trp Val Pro Thr Thr Glu Asp Val Gly			
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acc aca cct gag cag gtg gca acc tcc aaa gtc tta agt aca aca cca			5226
Thr Thr Pro Glu Gln Val Ala Thr Ser Lys Val Leu Ser Thr Thr Pro			
360	365	370	375
gtg gag atg cca act gca aaa gct aca ggt agg aca cct gaa gtg tca			5274
Val Glu Met Pro Thr Ala Lys Ala Thr Gly Arg Thr Pro Glu Val Ser			
380	385	390	

act aca gag ccc tct gga acc aca gtt aca cag gga aca act cca gag	5322
Thr Thr Glu Pro Ser Gly Thr Thr Val Thr Gln Gly Thr Thr Pro Glu	
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ctg gtg gag acc aca gct gga gag gtg tcc act cct gag cct gcg ggt	5370
Leu Val Glu Thr Thr Ala Gly Glu Val Ser Thr Pro Glu Pro Ala Gly	
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Ser Asn Thr Ser Ser Phe Met Pro Thr Glu Gly Thr Ala	
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Gly Ser Leu Ser Pro Leu Pro Asp Asp Thr Ala Thr Leu Val Leu Glu	
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Lys Arg Gln Ala Pro Leu Asp Cys Val Leu Tyr Arg Tyr Gly Ser Phe	
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Val Ser Cys Gln Gly Gly	
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 Pro Glu Trp Thr Glu Ser Gln Gly Pro Asp Cys Trp Arg Gly Gly His
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 Ile Ser Leu Lys Val Ser Asn Asp Gly Pro Thr Leu Ile Gly Ala Asn
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 Ala Ser Phe Ser Ile Ala Leu His Phe Pro Lys Ser Gln Lys Val Leu
 85 90 95
 Pro Asp Gly Gln Val Ile Trp Ala Asn Asn Thr Ile Ile Asn Gly Ser
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 Gln Val Trp Gly Gly Gln Leu Val Tyr Pro Gln Glu Pro Asp Asp Thr
 115 120 125
 Cys Ile Phe Pro Asp Gly Glu Pro Cys Pro Ser Gly Pro Leu Ser Gln
 130 135 140
 Lys Arg Cys Phe Val Tyr Val Trp Lys Thr Trp Asp Gln Tyr Trp Gln
 145 150 155 160
 Val Leu Gly Gly Pro Val Ser Gly Leu Ser Ile Gly Thr Asp Lys Ala
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 Ser Gln Ser Tyr Val Pro Leu Ala His Ser Ser Ser Ala Phe Thr Ile
 195 200 205
 Thr Asp Gln Val Pro Phe Ser Val Ser Val Ser Gln Leu Gln Ala Leu
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 Asp Gly Arg Asn Lys Arg Phe Leu Arg Lys Gln Pro Leu Thr Phe Ala
 225 230 235 240
 Leu Gln Leu His Asp Pro Ser Gly Tyr Leu Ala Gly Ala Asp Leu Ser
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 Tyr Thr Trp Asp Phe Gly Asp Ser Thr Gly Thr Leu Ile Ser Arg Ala
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Val	Pro	Gly	Thr	Thr	Asp	Arg	His	Val	Thr	Thr	Ala	Glu	Ala	Pro	Gly
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Thr	Thr	Ala	Gly	Gln	Val	Pro	Thr	Thr	Glu	Val	Met	Gly	Thr	Thr	Pro
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Gly	Gln	Val	Pro	Thr	Ala	Glu	Ala	Pro	Gly	Thr	Thr	Val	Gly	Trp	Val
			340					345					350		
Pro	Thr	Thr	Glu	Asp	Val	Gly	Thr	Thr	Pro	Glu	Gln	Val	Ala	Thr	Ser
		355					360					365			
Lys	Val	Leu	Ser	Thr	Thr	Pro	Val	Glu	Met	Pro	Thr	Ala	Lys	Ala	Thr
	370					375					380				
Gly	Arg	Thr	Pro	Glu	Val	Ser	Thr	Thr	Glu	Pro	Ser	Gly	Thr	Thr	Val
385					390					395					400
Thr	Gln	Gly	Thr	Thr	Pro	Glu	Leu	Val	Glu	Thr	Thr	Ala	Gly	Glu	Val
				405					410					415	
Ser	Thr	Pro	Glu	Pro	Ala	Gly	Ser	Asn	Thr	Ser	Ser	Phe	Met	Pro	Thr
			420					425					430		
Glu	Gly	Thr	Ala	Gly	Ser	Leu	Ser	Pro	Leu	Pro	Asp	Asp	Thr	Ala	Thr
		435					440					445			
Leu	Val	Leu	Glu	Lys	Arg	Gln	Ala	Pro	Leu	Asp	Cys	Val	Leu	Tyr	Arg
	450					455					460				
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Ala	Glu	Ile	Leu	Gln	Ala	Val	Ser	Ser	Ser	Glu	Gly	Asp	Ala	Phe	Glu
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Ala	Leu	Leu	Leu	Ala	Ser	Leu	Ile	Tyr	Arg	Arg	Arg	Leu	Met	Lys	Gln
		595					600					605			

Gly Ser Ala Val Pro Leu Pro Gln Leu Pro His Gly Arg Thr Gln Trp
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Pro Leu Leu Ser Gly Gln Gln Val
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